Title: SEMICONDUCTOR SINGLE CRYSTAL MANUFACTURING APPARATUS AND GRAPHITE CRUCIBLE (Tetsuhiro IIDA, Akiko NODA, Junsuke TOMIOKA) Filed: 3/31/2005 Attorney Dkt No.: 1110/98318 (SHEET 1 OF 7)

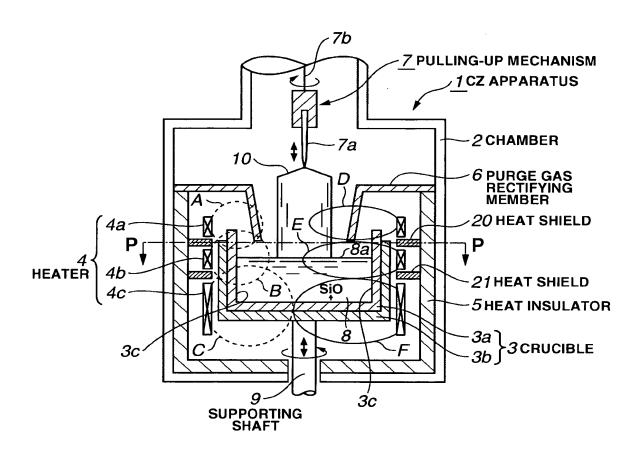


FIG.1

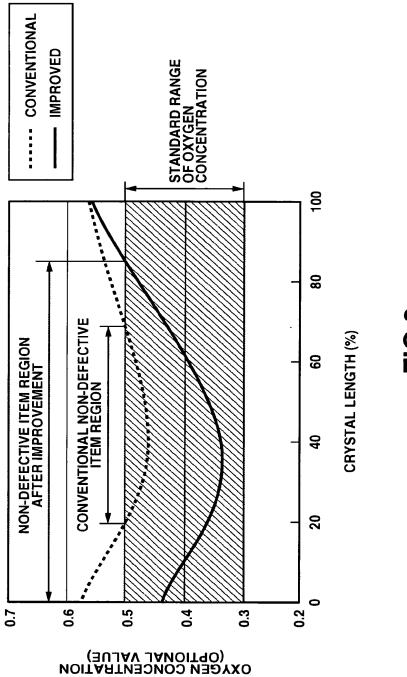
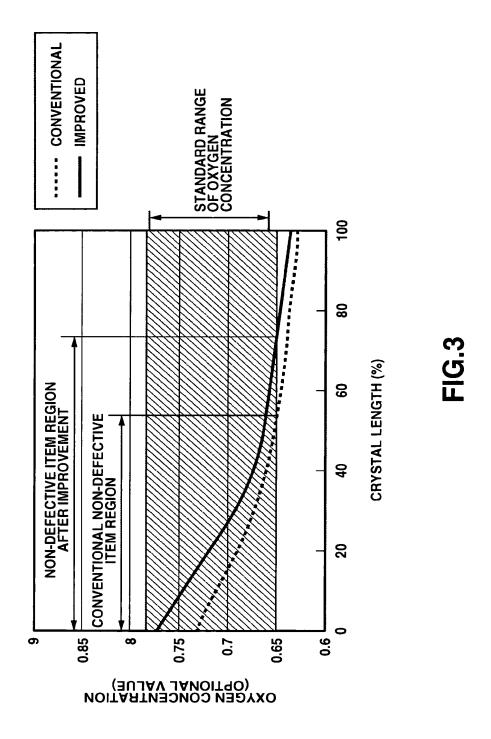


FIG.2



Title: SEMICONDUCTOR SINGLE CRYSTAL MANUFACTURING

APPARATUS AND GRAPHITE CRUCIBLE
(Tetsuhiro IIDA, Akiko NODA, Junsuke TOMIOKA) Filed: 3/31/2005
Attorney Dkt No.: 1110/98318 (SHEET 4 OF 7)

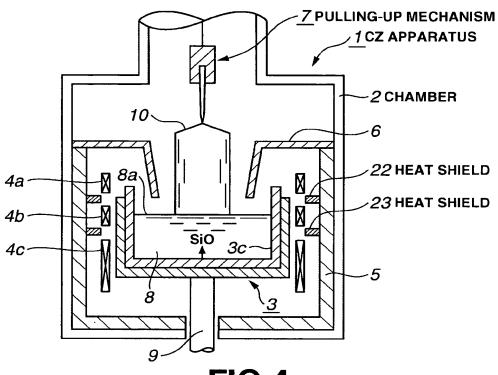


FIG.4

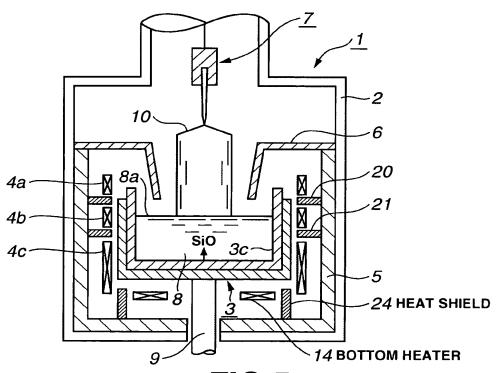
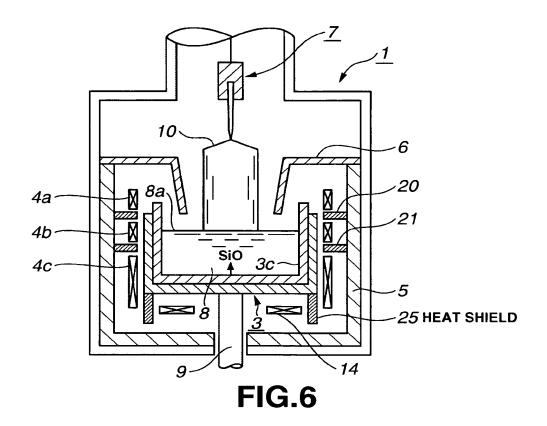


FIG.5

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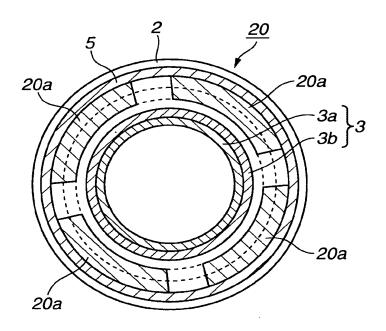


FIG.7

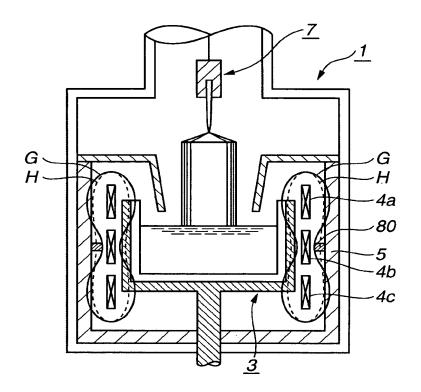


FIG.8

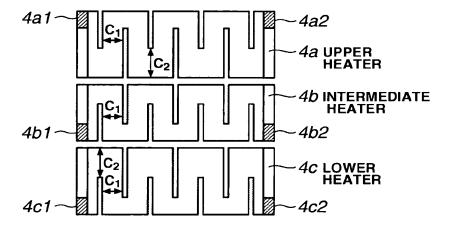
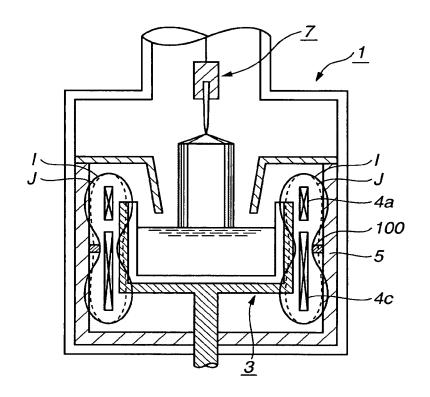
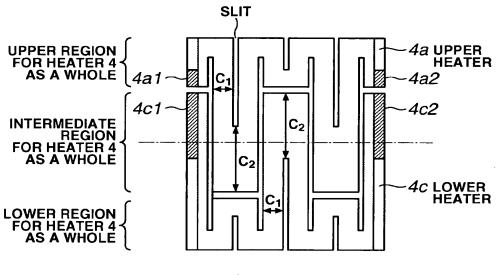


FIG.9



**FIG.10** 



**FIG.11**